

1 Attorney Docket No. 82517

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3 **MOUNTABLE SYNTACTIC FOAM SENSOR HOUSING**

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5 **ABSTRACT OF THE DISCLOSURE**

6 A encapsulation method of an acoustic sensor module and a  
7 resultant lightweight watertight acoustic sensor module for use  
8 in towed array retrieval systems. In the method, a composite is  
9 cast to encapsulate the support between end plates of the  
10 module, an exterior of a passage tube in which the array is  
11 retrieved, transducers positioned on the tube exterior and  
12 supporting telemetry lines for the transducers. The components,  
13 listed previously, are cast into a block of the cured composite  
14 such that the arrangement of the components is fixed. Residual  
15 composite emitting from an aperture of an end plate allows a  
16 conductor for the telemetry lines to be potted into the  
17 composite with an end of the conductor free from the composite  
18 thereby allowing connection to an external controller or  
19 generator.